

BROAD EXAMINATIONS® P.6 MATHEMATICS EXAMINATION

MID - TERM III 2024

Time allowed: 2 hours 30 minus				
Pupil's Name		•••••		
School Name:				
District Name: Read the following instructions carefully:				
 This paper is made up of two sections: A and B. Section A has 20 questions (40 Marks) 	FOR EXAMINERS' USE ONLY			
3. Section B has 12 questions (60 Marks)	PAGES	MARKS	SIGN	
4. Answer ALL questions in both sections A and B.	Page 2	(
5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams	Page 3			
should be done in pencil.	Page 4			
6. Unnecessary crossing of answers will lead to loss of marks.	Page 5			
 Any handwriting, which cannot be easily read, may lead to loss of marks. 	Page 6			
8. Do not fill anything in the boxes indicated for	Page 7			
Examiners' use only.	Page 8			
	TOTAL			
Teacher's comment to the learner				
	Approved	by:		

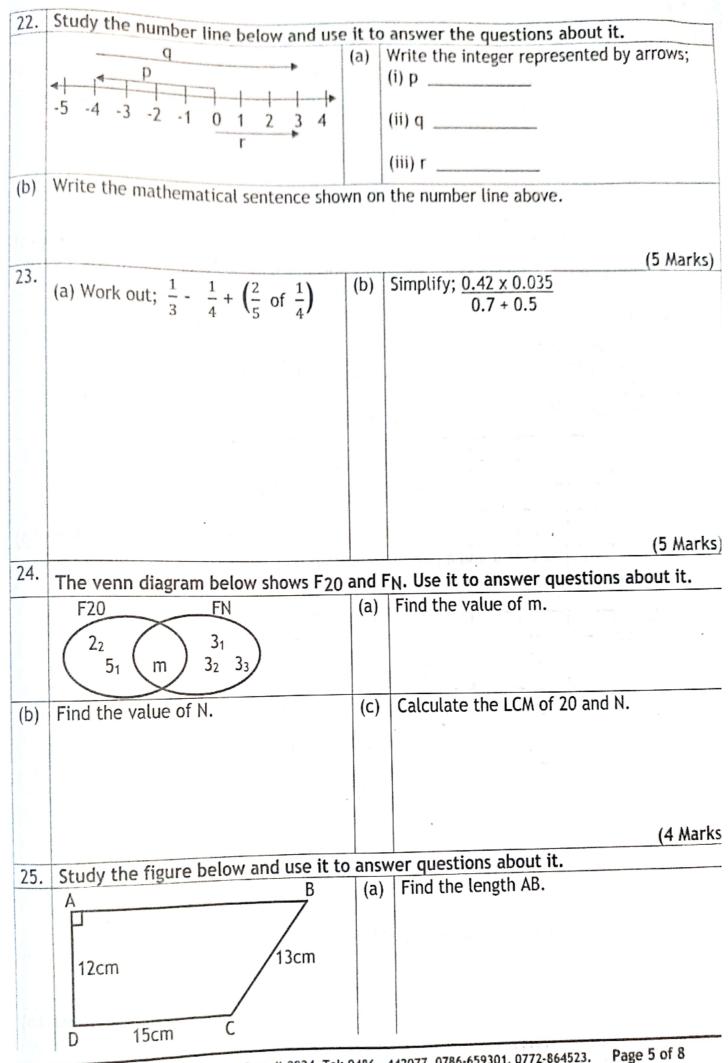
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Team Head Mathematics Departs

			two of the unit
1.	Work out; 24 ÷ 4	2.	Find the place value of the under rain the number 73625.
3.	Given that set V = {1, 2, 3, 6} and set U = {2, 4, 6}, show the above sets on the venn diagram below.	4.	Work out; $1\frac{1}{2} + \frac{2}{3}$
5.	List all factors of 30.	6.	What afternoon time is shown on the clock face below?
7.	The pictures below show the flowers in a P.6 class flower garden. If represents 15 flowers, how many flowers are in the garden?	8.	Calculate the circumference of the circle below. $(\pi = \frac{22}{7})$

9.	Joanitah had some money. Her mother gave her more sh. 3500 and she got sh. 10,000 altogether. How much money did she have at first?	10.	Increase 480 kg in the ratio 5 : 4.
11.	Draw an angle of 120° using a protractor.	12.	Express 10 35 hours to 12 hour clock system.
13.	Given that 1 pound sterling (£) costs Ugsh.4600, how many Pound Sterling can one obtain from Ugsh.2318400?	14.	There will be a parents' meeting at school next week. What is the probability that the meeting will be held on a day beginning with letter T?
15.	Find the least number of books that can be shared by either 12 boys or 15 boys leaving a remainder of 5 books.	16	. What number has been expanded to give; (3x10 ⁴) + (2x10 ³) + (5x10 ¹) + (4 x 10 ⁰)?

17. Briton borrowed sh. 150,000 from the association that charges interest at 5% per month. If he paid back sh. 195,000 at the end of 5 months, how much interest did he pay? 18. In a line of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils, Beatrace was the from one side and 16th from the oth side. How many pupils are in the lines of pupils ar	ie?
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SECTION D (CO. H. C.	
1. In a class of 63 pupils, (5x - 1) pupils like Maths only, (12+x) pupils like Engli	
only, 3x like both subjects while 16 pupils like other subjects.	sh
Represent the above information on the venn diagram below. (b) Find the value of x.	
$n(\Sigma) = 63$	
Maths English	
$\left(- \left(3x \right) - \right)$	
How many pupils like English?	



(b) Cal	culate the a	rea of the fi	igure.	(c)	Work out	the distai		
. 2								
					1			
				4				
24								(6 Mar
26. (a) A	lorry carrie	s 1400 brick	s per	(b)	How mucl	n money is	needed t	o buy 5 lorr
carry	now many t 11,200 bric	rips does it	make to		of bricks	f each bri	ck costs sh	h. 200?
carry	11,200 DITC	K2:						
								,
(a) Usin	ng a ruler, a ine KL = 8c	n pencil and m, LM= 5cm	l a pair o n.	f comp	oasses only	, construc	t a rectar	(04 mark
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				f comp	passes only	, construc	t a rectar	(04 mark
(b) Join K	to M and m		gle MKL.				t a rectar	(04 mark

OR ACADEMIC EXCELLENCE ...

28	(a) If $a = 3$		
20	(a) If $a = 3$ and $b = 4$, find the value	(b)	Solve for k; 2k - 4 = 10
			(5 Marks)
29.	The pie-chart below at		
1-2-	school. Study and was the numl	oer o	f desks in P.7, P.6, P.5 and P.4 in a certain
-	school. Study and use it to answer q	uesti	ons about it.
		(a)	What fraction represents desks in P.5 class?
	P.4 1 P.7		
	$P.4 = \frac{1}{3}$ P.7		
	1		
	$\left(\begin{array}{c} \frac{1}{6} \end{array}\right)$		
		1	
	$P.6 \stackrel{1}{-} P.5$		
	$P.6 \frac{1}{4} P.5$		
			T _a
(b)	If there are 72 desks in all the four	(c)	Express the number of desks in P.4 to
Det.	classes, find the number of desks in	(0)	degrees.
	P.7 class.	1771	degrees.
		L 1	
		A	
			(5 Marks)
30.	There are 10% more girls than boys i	n a c	lass.
(a)	Find the percentage of boys.	(b)	If there are 40 pupils in the class, how
		i-u	many girls are in the class?
	'	,	
			,
			n
	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			(5 Marks)
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31. A parent banked school fees as shown below.

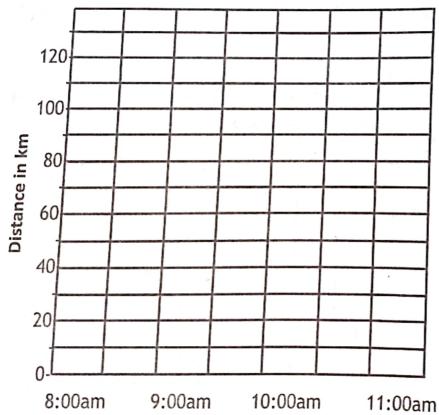
(a) Complete the table below correc	tly.	
Denomination	No. of notes	Amount
Fifty thousand shilling notes	2	Sh
Twenty thousand shilling notes		Sh. 20,000
thousand shilling notes	4	Sh. 40,000
Five thousand shilling notes	8	Sh

(b) How much money did the parent bank?

(5 Marks)

32. A motorist left town P at 8:00am and travelled at 60km/h for $1\frac{1}{2}$ hours to town Q. He rested for 30 minutes at town Q and continued to town R which is 30km from Q in 1 hour.

(a) Show the motorist's journey on the travel graph below.



Time in hours

(b) Calculate the motorist's average speed for the whole journey.

(06 marks)